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PATENT

Customer Number 22,852

Attorney Docket No. 05721.0026



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Tatsuya YANAGISAWA et al.

Serial No.: 09/982,796

Filed: October 22, 2001

For: MUSIC PIECE DATA
MANAGING APPARATUS AND
IN-VEHICLE AUDIO
INFORMATION
REPRODUCTION CONTROL
SYSTEM

Assistant Commissioner for Patents
Washington, DC 20231

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) Group Art Unit: 2652
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) Examiner:
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Sir:

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SUBMISSION OF FORMAL DRAWINGS

Filed herewith are 9 sheetS of formal patent drawings containing 9 figures. It is requested that these drawings be made of official record in the above-identified patent application.

If there are any fees due in connection with the filing of these drawings, please charge the fees to our Deposit Account No. 06-0916.

Respectfully submitted,

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Dated: March 4, 2002

By: David W. Hill

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FIG. 1

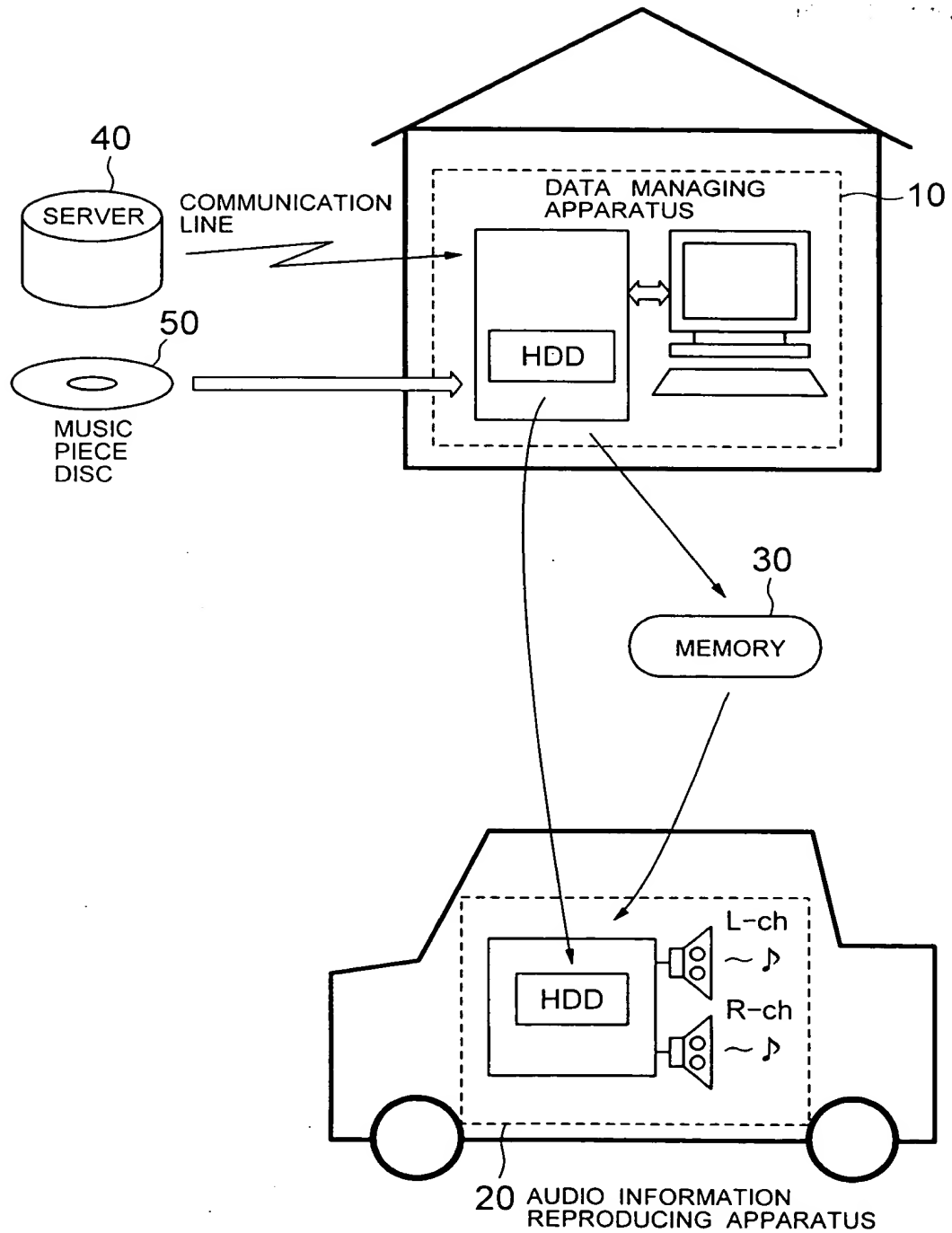


FIG. 2

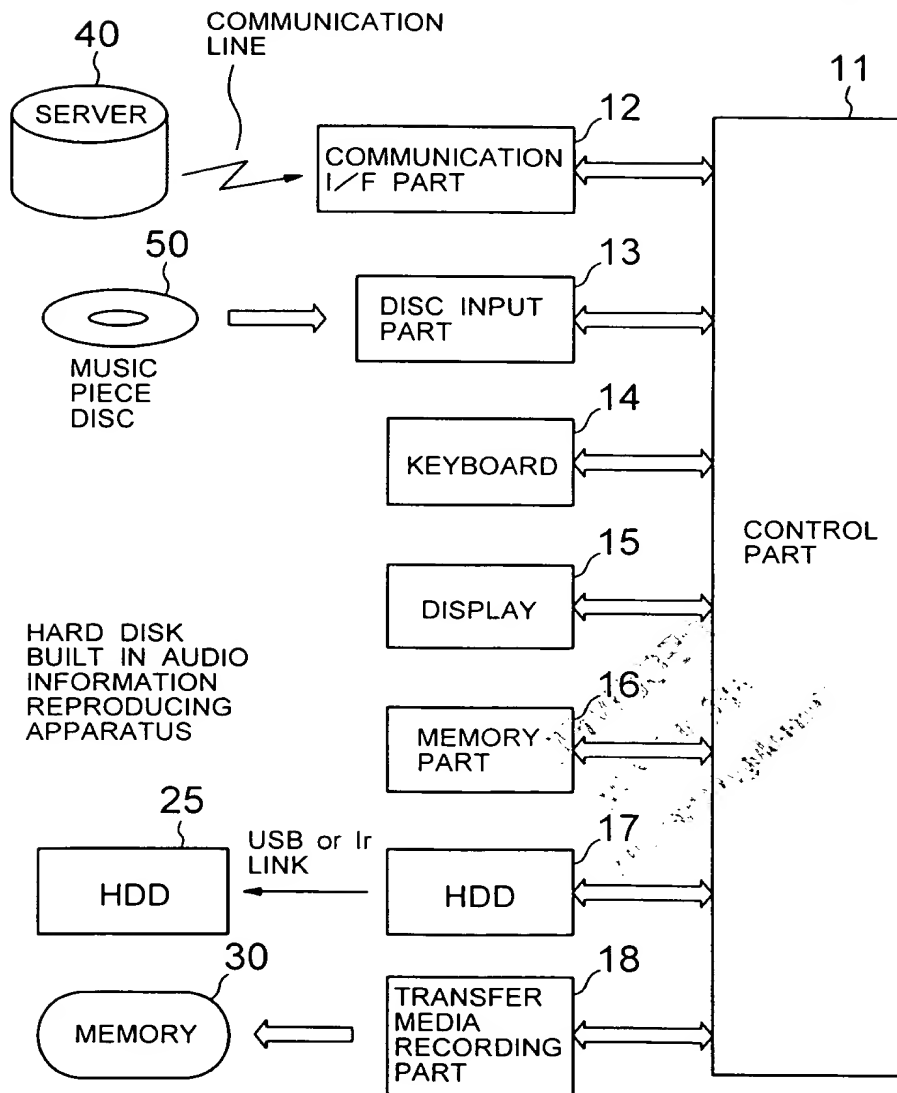


FIG. 3

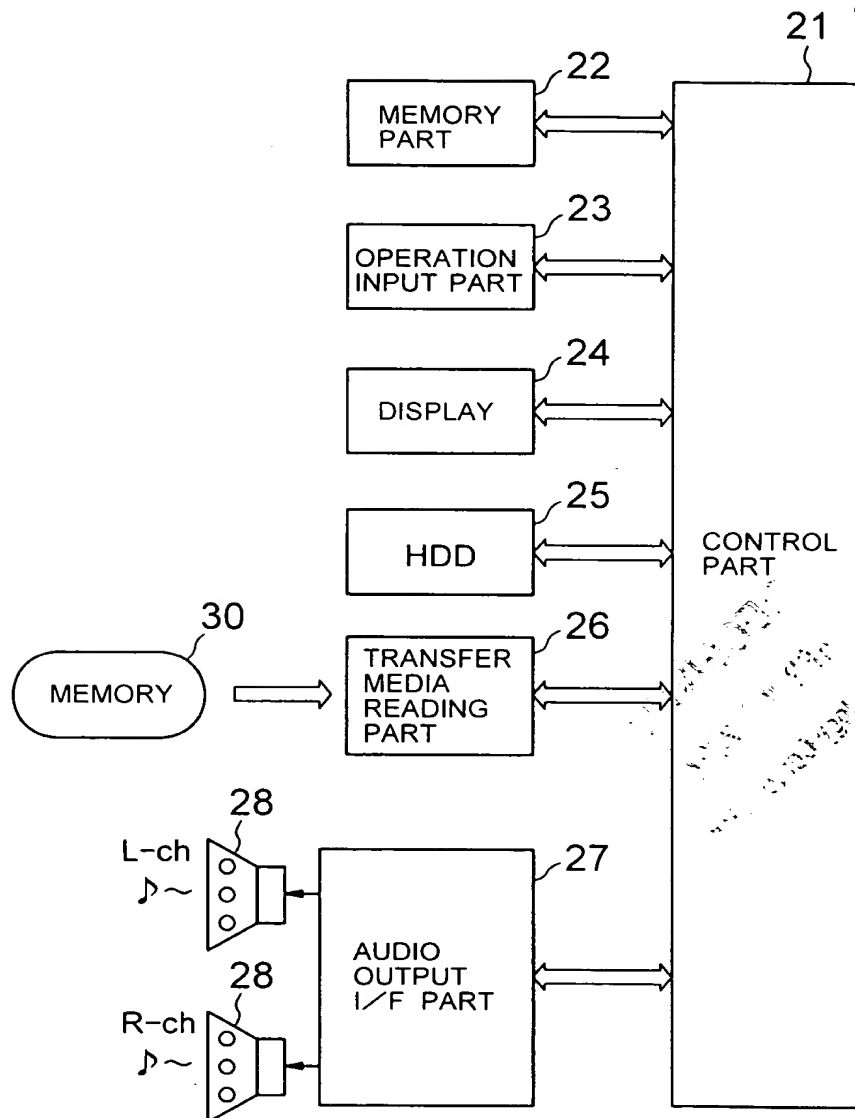
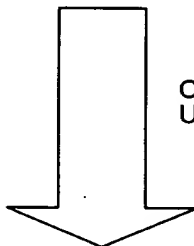


FIG. 4

DATA WHICH IS STORED ON HARD DISK OF
DATA MANAGING APPARATUS

MANAGEMENT DATA				MUSIC PIECE DATA
ADDRESS	NAME OF MUSIC PIECE	ARTIST	GENRE	
1	AAA	ppp	ROCK	- - - - -
2	BBB	qqq	CLASSICAL MUSIC	- - - - -
3	CCC	rrr	POPULAR BALLAD	- - - - -
4	DDD	sss	ROCK	- - - - -



COPY THE SAME DATA BY
USING I/F SUCH AS USB

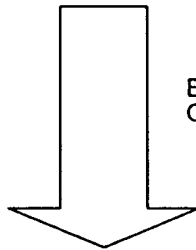
DATA WHICH IS STORED ON HARD DISK OF
AUDIO INFORMATION REPRODUCING APPARATUS

MANAGEMENT DATA				MUSIC PIECE DATA
ADDRESS	NAME OF MUSIC PIECE	ARTIST	GENRE	
1	AAA	ppp	ROCK	- - - - -
2	BBB	qqq	CLASSICAL MUSIC	- - - - -
3	CCC	rrr	POPULAR BALLAD	- - - - -
4	DDD	sss	ROCK	- - - - -

FIG. 5

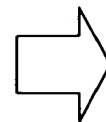
DATA STORED ON HARD DISK OF DATA
MANAGING APPARATUS

MANAGEMENT DATA				MUSIC PIECE DATA
ADDRESS	NAME OF MUSIC PIECE	ARTIST	GENRE	
1	AAA	ppp	ROCK	- - - - -
2	BBB	qqq	CLASSICAL MUSIC	- - - - -
3	CCC	rrr	POPULAR BALLAD	- - - - -
4	DDD	sss	ROCK	- - - - -



EDIT REPRODUCING ORDER
OF MUSIC PIECES

REPRODUCING ORDER DATA				
EDITION NO.	ADDRESS	NAME OF MUSIC PIECE	ARTIST	GENRE
1	2	BBB	qqq	CLASSICAL MUSIC
2	1	AAA	ppp	ROCK
3	4	DDD	sss	ROCK
4	3	CCC	rrr	POPULAR BALLAD

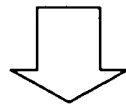


RECORD INTO
MEMORY 30

FIG. 6

DATA STORED ON HARD DISK OF DATA MANAGING APPARATUS

MANAGEMENT DATA				MUSIC PIECE DATA
ADDRESS	NAME OF MUSIC PIECE	ARTIST	GENRE	
1	AAA	ppp	ROCK	- - - - -
2	BBB	qqq	CLASSICAL MUSIC	- - - - -
3	CCC	rrr	POPULAR BALLAD	- - - - -
4	DDD	sss	ROCK	- - - - -



EDIT REPRODUCING ORDER OF MUSIC PIECES BY USING ARTIST AS INDEX

REPRODUCING ORDER DATA					
EDITION NO.	EDITION INDEX	ADDRESS	NAME OF MUSIC PIECE	ARTIST	GENRE
1	rrr	3	CCC	rrr	POPULAR BALLAD
—	ppp	1	AAA	ppp	ROCK
<u>2</u>	sss	4	DDD	sss	ROCK
<u>3</u>	qqq	2	BBB	qqq	CLASSICAL MUSIC

RECORD INTO
MEMORY 30EDIT REPRODUCING ORDER OF MUSIC PIECES BY USING GENRE
OF MUSIC PIECE AS INDEX

REPRODUCING ORDER DATA					
EDITION NO.	EDITION INDEX	ADDRESS	NAME OF MUSIC PIECE	ARTIST	GENRE
1	ROCK	1	AAA	ppp	ROCK
—	ROCK	4	DDD	sss	ROCK
<u>2</u>	CLASSICAL MUSIC	2	BBB	qqq	CLASSICAL MUSIC
<u>3</u>	POPULAR BALLAD	3	CCC	rrr	POPULAR BALLAD

RECORD INTO
MEMORY 30



FIG. 7

DATA WHICH IS RECORDED INTO MEMORY

REPRODUCING ORDER DATA					MUSIC PIECE DATA (NOTES)
EDITION NO.	ADDRESS	NAME OF MUSIC PIECE	ARTIST	GENRE	
1	2	BBB	qqq	CLASSICAL MUSIC	
2	1	AAA	ppp	ROCK	
3	4	DDD	sss	ROCK	
4	3	CCC	rrr	POPULAR BALLAD	
ADDITIONAL DATA					
V	100	DDD	ttt	FOLK SONG	- - - - -

(NOTES) WITH RESPECT TO MUSIC PIECE DATA, "X" INDICATES THE ABSENCE OF DATA TO BE TRANSFERRED AND " - - - " INDICATES THE ABSENCE OF DATA TO BE TRANSFERRED.

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FIG. 8

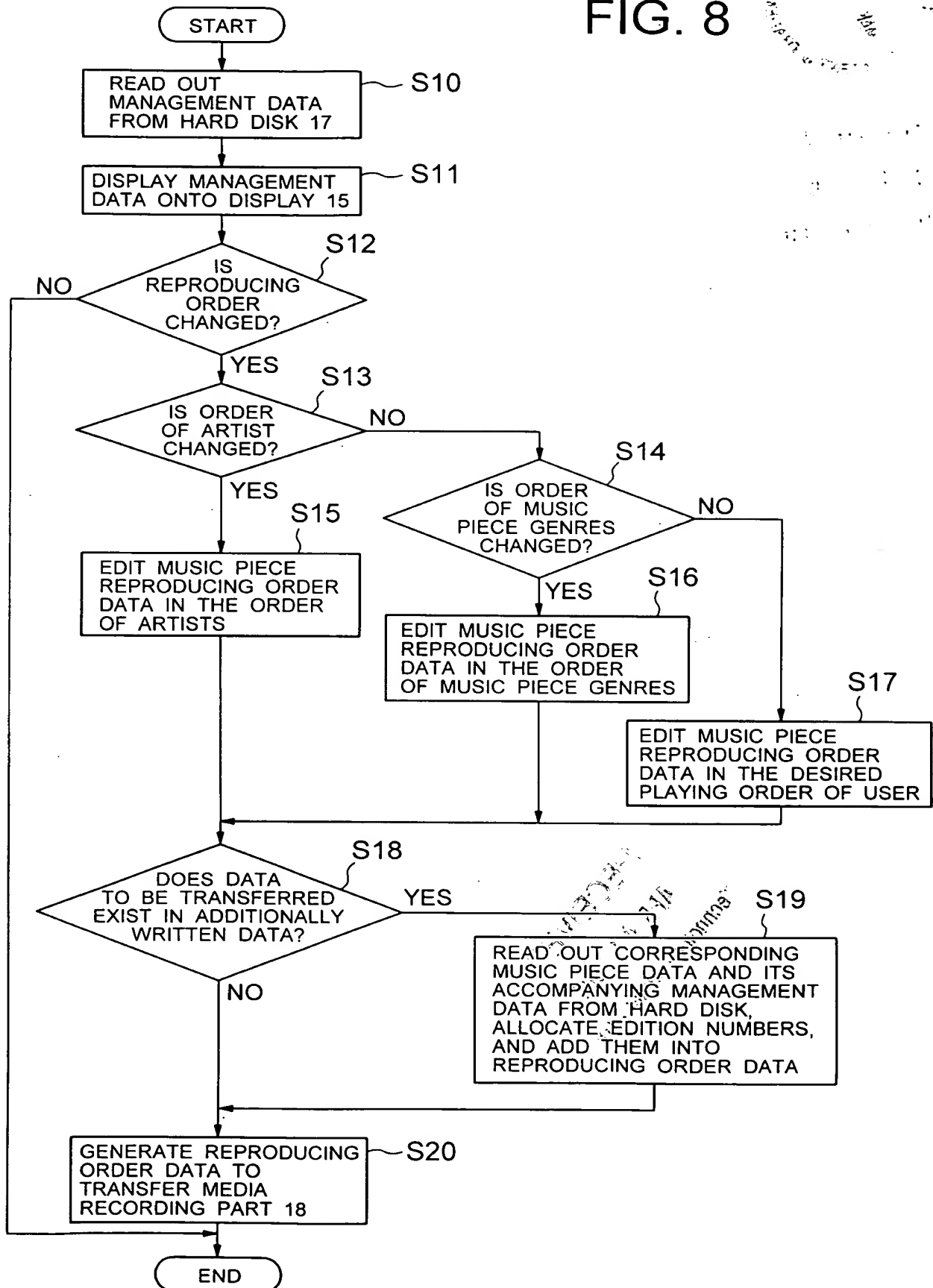


FIG. 9

